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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/810,160

DATE: 09/30/2004

TIME: 15:01:39

Input Set : A:\SEQLIST416272001301.TXT

Output Set: N:\CRF4\09302004\J810160.raw

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4 <110> APPLICANT: Cho, Myeong-Je
5      Lemaux, Peggy G.
6      Buchanan, Bob B.
7      Wong, Joshua
8      Marx, Corina
10 <120> TITLE OF INVENTION: VALUE-ADDED TRAITS IN GRAIN AND SEED
11      TRANSFORMED WITH THIOREDOXIN
14 <130> FILE REFERENCE: 416272001301
16 <140> CURRENT APPLICATION NUMBER: US 10/810,160
17 <141> CURRENT FILING DATE: 2004-03-25
19 <150> PRIOR APPLICATION NUMBER: US 09/538,864
20 <151> PRIOR FILING DATE: 2000-03-29
22 <150> PRIOR APPLICATION NUMBER: US 60/126,736
23 <151> PRIOR FILING DATE: 1999-03-29
25 <150> PRIOR APPLICATION NUMBER: US 60/127,198
26 <151> PRIOR FILING DATE: 1999-03-31
28 <150> PRIOR APPLICATION NUMBER: US 60/169,162
29 <151> PRIOR FILING DATE: 1999-12-06
31 <150> PRIOR APPLICATION NUMBER: US 60/177,740
32 <151> PRIOR FILING DATE: 2000-01-21
34 <150> PRIOR APPLICATION NUMBER: US 60/177,739
35 <151> PRIOR FILING DATE: 2000-01-21
37 <160> NUMBER OF SEQ ID NOS: 25
39 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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42 <211> LENGTH: 486
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: barley B1-hordein promoter and signal sequence
49 <400> SEQUENCE: 1
50 aagctttaac aaccacaca ttgattgcaa ctagtccta cacaagtttt ccattcttgt 60
51 ttcaggctaa caacctatac aagggtccaa aatcatgcaa aagtgatgct aggttgataa 120
52 tgtgtgacat gtaaagtga taagggtgagt catgcatacc aaacctcggg atttctatac 180
53 tttgtgtatg atcatatgca caactaaaag gcaactttga ttatcaattg aaaagtaccg 240
54 cttgtagctt gtgcaaccta acacaatgtc caaaaatcca tttgcaaaaag catccaaaca 300
55 caattgttaa agctgttcaa acaaaacaaag aagagatgaa gcctggctac tataaatagg 360
56 caggtagtat agagatctac acaagcacia gcatcaaaac caagaaacac tagttaacac 420
57 caatccacta tgaagacctt cctcatcttt gcactcctcg ccattgcggc aacaagtacg 480
58 attgca
59
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 19
62 <212> TYPE: PRT

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63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: barley B1-hordein signal protein
68 <400> SEQUENCE: 2
69 Met Lys Thr Phe Leu Ile Phe Ala Leu Leu Ala Ile Ala Ala Thr Ser
70 1           5           10           15
71 Thr Ile Ala
75 <210> SEQ ID NO: 3
76 <211> LENGTH: 497
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: barley D-hordein promoter and signal sequence
83 <400> SEQUENCE: 3
84 cttcgagtgcc cgcgcgattt gccagcaatg gctaacagac acatattctg ccaaaacccc 60
85 agaacaataa tcatttctcg tagatgaaga gaacagacca agatacaaac gtccacgctt 120
86 cagcaaacag taccacagaa ctaggattaa gccgattacg cggcttttagc agaccgtcca 180
87 aaaaaactgt ttgcaaagc tccaattcct ccttgcttat ccaatttctt ttgtgttggc 240
88 aaactgcact tgtccaaccg attttgttct tcccggtgtt cttcttaggc taactaacac 300
89 agccgtgcac atagccatgg tccggaatct tcacctcgct cctataaaag cccagccaat 360
90 ctccacaatc tcattcatc cgaagaaccg gagaaccaca aaactagaga tcaattcatt 420
91 gacagtccac cgagatggct aagcggctgg tcctctttgt ggcggtaatc gtcgcctcgc 480
92 tggctctcac caccgct                                     497
94 <210> SEQ ID NO: 4
95 <211> LENGTH: 20
96 <212> TYPE: PRT
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: barley D-hordein signal protein
102 <400> SEQUENCE: 4
103 Ala Lys Arg Leu Val Leu Phe Val Ala Val Ile Val Ala Leu Val Ala
104 1           5           10           15
105 Leu Thr Thr Ala
106           20
109 <210> SEQ ID NO: 5
110 <211> LENGTH: 28
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: primer
117 <400> SEQUENCE: 5
118 atatctagaa tggcggcgctc ggcggcgca                                     28
120 <210> SEQ ID NO: 6
121 <211> LENGTH: 27
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: primer
128 <400> SEQUENCE: 6

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129 atagagctct tactgggccg cgtgtag                27
131 <210> SEQ ID NO: 7
132 <211> LENGTH: 26
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136 <220> FEATURE:
137 <223> OTHER INFORMATION: primer
139 <400> SEQUENCE: 7
140 gtaaagcttt aacaacccac acattg                26
142 <210> SEQ ID NO: 8
143 <211> LENGTH: 34
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: primer
150 <400> SEQUENCE: 8
151 ccgacgccgc tgcaatcgta cttgttgccg caat        34
153 <210> SEQ ID NO: 9
154 <211> LENGTH: 33
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: primer
161 <400> SEQUENCE: 9
162 agaaagcttg gtacccttcg agtgcccgcc gat        33
164 <210> SEQ ID NO: 10
165 <211> LENGTH: 48
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: primer
172 <400> SEQUENCE: 10
173 gaacagctcc tcgcccttgc tcacagcggg ggtgagagcc acgagggc 48
175 <210> SEQ ID NO: 11
176 <211> LENGTH: 19
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: primer
183 <400> SEQUENCE: 11
184 ccaagaagtt cccagctgc                        19
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 27
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: primer
194 <400> SEQUENCE: 12
195 aactctagac tcggtggact gtcaatg                27

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197 <210> SEQ ID NO: 13
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199 <212> TYPE: DNA
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203 <223> OTHER INFORMATION: primer
205 <400> SEQUENCE: 13
206 catcgagaca agcacggtca acttc 25
208 <210> SEQ ID NO: 14
209 <211> LENGTH: 24
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: primer
216 <400> SEQUENCE: 14
217 atatccgagc gcctcgtgca tgcg 24
219 <210> SEQ ID NO: 15
220 <211> LENGTH: 24
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: primer
227 <400> SEQUENCE: 15
228 caagatggat tgcacgcagg ttct 24
230 <210> SEQ ID NO: 16
231 <211> LENGTH: 23
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: primer
238 <400> SEQUENCE: 16
239 atagaaggcg atgcgctgca aat 23
241 <210> SEQ ID NO: 17
242 <211> LENGTH: 29
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: primer
249 <400> SEQUENCE: 17
250 cggaattcga tctagtaaca tagatgaca 29
252 <210> SEQ ID NO: 18
253 <211> LENGTH: 26
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: primer
260 <400> SEQUENCE: 18
261 ggtctagaat ggaaactcac aaaacc 26
263 <210> SEQ ID NO: 19

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Input Set : A:\SEQLIST416272001301.TXT

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264 <211> LENGTH: 23
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: primer
271 <400> SEQUENCE: 19
272 atagctgcga caaccctgtc ctt 23
274 <210> SEQ ID NO: 20
275 <211> LENGTH: 26
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: primer
282 <400> SEQUENCE: 20
283 gggagctctc aatcactctt accctc 26
285 <210> SEQ ID NO: 21
286 <211> LENGTH: 21
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: primer
293 <400> SEQUENCE: 21
294 aagcctgaac tcaccgac g 21
296 <210> SEQ ID NO: 22
297 <211> LENGTH: 22
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: primer
304 <400> SEQUENCE: 22
305 aagaccaatg cggagcatat ac 22
307 <210> SEQ ID NO: 23
308 <211> LENGTH: 36
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: primer
315 <400> SEQUENCE: 23
316 ggcgcgcatgcg aattcgaatt cgatatcgat cttega 36
318 <210> SEQ ID NO: 24
319 <211> LENGTH: 369
320 <212> TYPE: DNA
321 <213> ORGANISM: Barley
323 <220> FEATURE:
324 <221> NAME/KEY: misc_feature
325 <222> LOCATION: (1)...(369)
326 <223> OTHER INFORMATION: thioredoxin h
328 <400> SEQUENCE: 24
329 atggcggcgt cggcaacggc ggcggcagtg gcggcggagg tgatctcggt ccacagcctg 60

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/810,160

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Input Set : A:\SEQLIST416272001301.TXT

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